

A Level Computer Science

Exam Style Questions

Unit 1.3.4

Web Technologies

Part 4: Client and Server Side Processing

Name		Date	
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Score	Percentage	Grade
/ 15		

Question 1

A website has the following code:

```
<form action="checkUser.php">
  Username:<br>
  <input type="text" name="username">
  <br>
  Password:<br>
  <input type="password" name="password">
  <br><br>
  <input type="submit" value="submit">
</form>
```

The line `<form action="checkUser.php">` sends the contents of the form to be processed by the server. This is done by code written in a language called PHP which is designed for server-side processing. Conversely, JavaScript is traditionally used for client-side processing.

Discuss the difference between server and client-side processing with respect to webpages. You should refer to the advantages, drawbacks and best uses of both approaches.

[9]

Question 2

RestaurantReview is a website that allows users to leave reviews and ratings for different restaurants.

Each review includes a score out of 5. When the score is entered on the website it is checked in the browser to ensure a number no higher than 5 has been entered. It is then checked again on the server.

- a) State what is meant by the term 'server'.

[1]

- b) Explain why it is important that the review score that the user entered is also checked server-side.

[2]

Question 3

The Big Brains exam board has produced a website that allows students to access revision videos. The exam board wants to limit access to those students with a school email account (i.e. one ending .sch.uk). When students sign up JavaScript is used to check that the email address they have entered is from a school account. The address is checked again when it reaches the server before login details are sent to the address.

Explain why it is important to check the email address with JavaScript and again when it reaches the server.

[3]